Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/025,357	CAHILL ET AL.
	Examiner	Art Unit	
	Dennis Rosario	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *06 January 2005*.

2a) ☒ This action is **FINAL.**   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
   closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-28* is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-28* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a) ☐ All   b) ☐ Some *   c) ☐ None of:

   1. ☐ Certified copies of the priority documents have been received.

   2. ☐ Certified copies of the priority documents have been received in Application No. _____.

   3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage
      application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

Response to Amendment

1.   The amendment was received on January 6, 2005. Claims 1-28 are pending.

Drawings

2.   The drawings were received on 01/06/2005. These drawings are of figures 1-

13B are acceptable. Thus objection to the drawings are withdrawn.

Specification

3.   Due to the amendment, the objection to the specification is withdrawn.

Response to Arguments

4.   Applicant's arguments filed 01/06/2005 have been fully considered but they are

not persuasive.

        Page 11, lines 13,14 states, "In Claims 1 and 26, the selection of the cropping

region is automatic. This contrasts with the cited reference, in which the user makes the

selection..."

        However, the cited reference, Burt et al. (US Patent 5,649,032 A), teaches a user

selection and an "automatic[ ]" in col. 10, line 56 "selection function[ ]" in col. 10, line 55.

Where the "selection functions may include cropping" in col. 10, line 53.

Claim Rejections - 35 USC § 112

5.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly
> claiming the subject matter which the applicant regards as his invention.

6.   Claim 27 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

Claim 27, line 1: "A computer program product" ought to be amended to "A

computer program product **stored on a computer readable medium**".

Claim Rejections - 35 USC § 102

7.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public
> use or on sale in this country, more than one year prior to the date of application for patent in the United
> States.

8.   Claims 1, 2, 6, 7, 8, 9, 10, 11, 12, 13,14,16,27 and 28 are rejected under 35

U.S.C. 102(b) as being anticipated by Burt et al. (US Patent 5,649,032 A).

Regarding claim 26, Burt et al. discloses a system for producing a cropped digital

image, comprising the steps of:

a)   providing (Fig. 5, step 500 provides or inputs a mosaic image.) a plurality

of partially overlapping source digital images (Fig. 2A shows a plurality of partially

overlapping images which are used to generate a mosaic image.);

b)   means (Fig. 5, step SO4:CROPPING) for specifying and providing (Fig. 5,

step 504:CROPPING is selected in col. 11, lines 1,2.) a cropping aspect ratio L:H (Fig.

5, step 506:SELECT REGION OF INTEREST SIZE AND SHAPE), the cropping aspect

ratio (Fig. 5, step SO6:SELECT REGION OF INTEREST SIZE AND SHAPE) being the

ratio of the length to the height (A shape of a region of interest can be a square,

rectangle, triangle which has dimensions.) of the cropped digital image (Fig. 5, step

518:APPLY SELECTION FUNCTION crops the image based on step 506 of fig. 5.);

c)   means for specifying and providing a cropping criterion (Fig. 5, step

502: SELECT SELECTION FUNCTION AND PARAMETERS), the cropping criterion

(Fig. 5, step 502:SELECT SELECTION FUNCTION AND PARAMETERS) being a

criterion (Fig. 5, step 502:SELECT SELECTION FUNCTION AND PARAMETERS use

parameters to control the cropping function in col. 11, lines .2-4.) for the size ("SIZE" of

step 506) and location ("REGION OF INTEPEST" of step 5ô6) of the cropped digital

image (Fig. 5, step 518:APPLY SELECTION FUNCTION crops the image based on

step 506 of fig. 5.);

d)   means for combining (Fig. 3,num. 3O4:COMBINATION PROCESS) the

source digital images (F-(g. 2A shows a plurality of partially overlapping images for

combining.) to form a composite digital image (Fig. 2A shows a plurality of partially

overlapping images which are used to generate a mosaic image.);

e)   means for automatically selecting (Fig. 3,num. 302: SELECTION

PROCESS is a means for an "automatic[ ]" in col. 10, line 56 "selection function[ ]" in

col. 10, line 55. Where the "selection functions may include cropping" in col. 10, line 53.

Thus, fig. 3,num. 302 automatically selects cropping as indicated in fig. 5,num. 504:

CROPPING.) the cropping region (Fig. 3,num. 302: SELECTION PROCESS is a means

for an "automatic[ ]" in col. 10, line 56 "selection function[ ]" in col. 10, line 55

corresponds to a cropping function that crops a region from fig. 5, step 506:SELECT

REGION OF INTEREST SIZE AND SHAPE) of the composite digital image (Fig. 3,num.

302: SELECTION PROCESS is a means for an "automatic[ ]" in col. 10, line 56

"selection function[ ]" in col. 10, line 55 corresponds to a cropping function that crops a

region from fig. 5, step 506:SELECT REGION OF INTEREST SIZE AND SHAPE of the

composite digital image or mosaic image of figure 2A.) according to the cropping

criterion (Fig. 3,num. 302: SELECTION PROCESS is a means for an "automatic[ ]" in

col. 10, line 56 "selection function[ ]" in col. 10, line 55 that corresponds to a cropping

function which crops a region from fig. 5, step 506:SELECT REGION OF INTEREST

SIZE AND SHAPE of the composite digital image or mosaic image of figure 2A

according to the cropping criterion of fig. 5, step 502:SELECT SELECTION FUNCTION

AND PARAMETERS which uses "parameters to control the cropping function" in col.

11, lines 2-4.),...

... said cropping region (Fig. 5, step 506:SELECT REGION OF INTEREST SIZE AND

SHAPE which corresponds to the claimed cropping region.) being a rectangular region

having aspect ratio L:H (Fig. 5, step 506:SELECT REGION OF INTEREST SIZE AND

SHAPE which corresponds to the claimed cropping region has a shape of a region of

interest according to step 506 of figure 5 which can be a square, rectangle, triangle

which have dimensions that corresponds to the claimed rectangular region having

aspect ratio.), and having size (Fig. 5, step 506:SELECT REGION OF INTEREST SIZE

AND SHAPE which corresponds to the claimed cropping region has a shape of a region

of interest according to step 506 of figure 5 which can be a square, rectangle, triangle

which have dimensions that corresponds to the claimed rectangular region having

aspect ratio and "SIZE" from step 506.) and location (Fig. 5, step 506:SELECT REGION

OF INTEREST SIZE AND SHAPE which corresponds to the claimed cropping region

has a shape of a region of interest according to step 506 of figure 5 which can be a

square, rectangle, triangle which have dimensions that corresponds to the claimed

rectangular region having aspect ratio and "SIZE" from step 506 and a "REGION OF

INTEREST" of step 506 which corresponds to the claimed location.)...

... determined by the cropping criterion (Fig. 5, step 506:SELECT REGION OF

INTEREST SIZE AND SHAPE which corresponds to the claimed cropping region has a

shape of a region of interest according to step 506 of figure 5 which can be a square,

rectangle, triangle which have dimensions that corresponds to the claimed rectangular

region having aspect ratio and "SIZE" from step 506 and a "REGION OF INTEREST" of

step 506 which corresponds to the claimed location determined by the cropping criterion

of fig. 5, step 502:SELECT SELECTION FUNCTION AND PARAMETERS which uses

"parameters to control the cropping function" in col. 11, lines .2-4.) and;

      f)   means for cropping (Fig. 5, step 518:APPLY SELECTION FUNCTION

crops the image based on step 506 of fig. 5.) the composite digital image (mosaic image

of figure 2A.) to the cropping region (Fig. 5, step 506:SELECT REGION OF INTEREST

SIZE AND SHAPE) to form a cropped digital image (at the output of step 518: APPLY

SELECTION FUNCTION.).

      Claims 1 and 28 are rejected the same as claim 26. Thus, argument similar to

that presented above for claim 26 of a system is equally applicable to claims 1 and 28 of

a method.

Regarding claim 2, Burt et al. discloses the method claimed in claim 1, wherein the step of providing(Fig. 5, step 500 provides or inputs a mosaic image.), source digital images (Fig. 2A shows a plurality of partially overlapping images which are used to generate a mosaic image.) further comprises the step of digitizing (The source images "taken" contain "a data structure" in col. 3, lines 38-40. Thus, images data that contain a data structure from a taken image corresponds to a step of digitizing.) source photographic images ("photographs" in col. 4, line 30) to form source digital images (Fig. 2A shows a plurality of partially overlapping images which are used to generate a mosaic image.).

Regarding claim 6, Burt et al. discloses the method claimed in claim 1, further comprising the step of:

g)   resizing (fig. 5,num. 512: MOSAIC TRUNCATION) the cropped digital image (at the output of step 518: APPLY SELECTION FUNCTION.) for display (fig. 7,num. 706: DISPLAY MOSAIC).

Regarding claim 7, Bud et al. discloses method claimed in claim 1 , further comprising the step of:

g)   resizing (fig. 5,num. 512: MOSAIC TRUNCATION) the cropped digital image (at the output of step 518: APPLY SELECTION FUNCTION.) for hardcopy output (Burt et al. states,"...a mosaic based display system [fig. 1,num. I06:IMAGE PRINTING SYSTEM] include[es] an image printing system (col. 2, lines 43,44).")

Regarding claim 8, Burt et al. discloses the method claimed in claim 1, further

comprising the step of:

g)   transforming the pixel values (Fig. 7, num. 706: ANCILLARY IMAGE

INFORMATION) of the cropped digital image (at the output of step 518: APPLY

SELECTION FUNCTION and output of fig. 7, num. 702:IMAGE SELECTION

PROCESS.) to an output device (Fig. 7, num. 706:DISPLAY MOSAIC) compatible color

space (The ancillary image information is used to change the color of the mosaic for

display 706 in col. 13, lines 5-9.).

Regarding claim 9, Burt et al. discloses the method in claim 1, wherein the

source digital images (Fig. 2A shows a plurality of partially overlapping images which

are used to generate a mosaic image.) have pixel values that are linearly (Fig. 4 is an

IMAGE ALIGNMENT PROCESS 300 described from col. 7, line 20 to col. 10, line 41

that is based on a linear model in col. 10, lines 16,17 that has an intensity related to

noise in col. 9, lines 26,27 to align the images of figure 2A.Thus, the images of figure 2A

has an intensity related to noise and are aligned using a linear model.) or logarithmically

related to scene intensity.

Regarding claim 10, Burt et al. discloses the method claimed in claim 9, wherein

the step of providing source digital images (Fig. 2A shows a plurality of partially

overlapping images which are used to generate a mosaic image.) further comprises

applying a metric transform to a source digital image ("alignment parameters" are used

to transform an image in col. 10, lines 25-27.) such that the pixel values of the source

digital image are linearly or logarithmically related to scene intensity (Fig. 4 is an IMAGE

ALIGNMENT PROCESS 300 described from col. 7, line 20 to col. 10, line 41 that is

based on a linear model in col. 10, lines 16,17 that has an intensity related to noise in

col. 9, lines 26,27 to align the images of figure 2A.Thus, the images of figure 2A has an

intensity related to noise and are aligned using a linear model.).

Claim 11 is worded similarly to claim 10, thus claim 11 was addressed in claim

10.

Regarding claim 12, Burt et al. discloses the method claimed in claim 9, wherein

the step of providing source digital images (Fig. 2A shows a plurality of partially

overlapping images which are used to generate a mosaic image.) further comprises

applying radial exposure transforms (Object illumination corresponds to a radial

exposure due to illumination that is determined using a pyramid that corresponds to a

transform in col. 15, lines 34-40.) to one or more of the source digital images (Fig. 2A

shows a plurality of partially overlapping images which are used to generate a mosaic

image.) to compensate for exposure falloff (Residuals are compensated for in col. 15,

lines 52-55. Note that residuals encompass object illumination and other features in col.

15, lines 44-46. Thus, object illumination is compensated.)

Regarding claim 13, Burt et al. discloses the method claimed in claim 1, wherein

the step of combining (Fig. 3,num. 304:COMBINATION PROCESS) source digital

images (Fig. 2A shows a plurality of partially overlapping images for combining.) further

comprises the steps of:

i)   warping the source digital images to compensate for distortion due to

perspective projection, yielding warped digital images (Burt et al. states, " The aligning

process [shown in figure 3,num. 300:ALIGNMENT PROCESS] is accomplished by

warping the images to one another (col. 5, lines 63,64).");

ii)   aligning the warped digital images to identify overlapping regions (Figure

2A shows a group equally spaced images that are aligned using the aligning process

shown in figure 3,num. 300:ALIGNMENT PROCESS with overlapping portions shown

by the dashed rectangles and mentioned in col. 17, lines 35-37.); and

iii)   blending (Fig. 3,num. 304:COMBINATION PROCESS receives the

aligned image outputted from fig. 3,num. 300 via numeral 302 to "seamlessly combine"

images in col. 6, lines 18-21.) the warped digital images in the overlapping regions

(Figure 2A shows a group equally spaced images that are aligned using the aligning

process shown in figure 3,num. 300:ALIGNMENT PROCESS with overlapping portions

shown by the dashed rectangles and mentioned in col. 17, lines 35-37.) to form a

composite digital image (Output of figure 3,num. 304 is a composite digital image.).

Regarding claim 14, Burt et al. discloses the method claimed in claim 13, wherein

the step of blending warped digital images (Fig. 3,num. 304:COMBINATION PROCESS

receives the aligned image outputted from fig. 3,num. 300 via numeral 302 to

"seamlessly combine" images in col. 6, lines 18-21.) includes (Fig. 3, num. 304:

COMBINATION PROCESS receives weight from fig. 3, num. 302:SELECTION

PROCESS) calculating a weighted average of the pixel values (fig. 3,num. 302:

SELCTION PROCESS calculates a weight shown in detail in figure 5,num. 511:

WEIGHTING for the aligned image which contains overlap.) in the overlapping region

(Weights are applied to an image with overlap regions shown in figure 2A.).

Regarding claim 16, Burt et al. discloses the method claimed in claim 1, wherein

the step of combining (Fig. 3,num. 304:COMBINATION PROCESS) source digital

images (Fig. 2A shows a plurality of partially overlapping images for combining.) further

comprises warping (Fig. 3, num. 304:COMBINATION PROCESS receives ALIGNMENT

INFORMATION which warps images together.) a composite digital image (Fig. 3, Label

: INPUT IMAGE) to simulate projection onto a geometrical surface (Fig. 7,num. 706 is a

flat surface for displaying an image.) suitable for viewing.

Regarding, claim 27, Burt et al. discloses a computer program product **stored on**

a computer readable medium for performing the method of claim 1 in figure 8, num.

812:STORAGE.

Claim Rejections - 35 USC § 103

9.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

10.   Claims 3,4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Burt et al. (US Patent 5,649,032 A) in view of Armstrong et al. (US Patent

6,580,457 B1).

Regarding claim 3, Burt et al. does not teach the limitation of claim 3, but does

suggest that a user can select a size in col. 11, lines 2-6. Thus, a user can select any

size from small to large.

However, Armstrong et al., in the field of endeavor of electronic photography,

teaches a cropping criterion (Fig. 9,num. 81:# VERTICAL LINES=TOTAL VERTICAL

LINES IN IMAGER) that specifies that a cropped digital image (Figure 5a contains a

smaller rectangle labeled: MODE 1 640 X 480 IMGAE) is the composite digital image

region (The smaller rectangle labeled: MODE 1 640 X 480 IMAGE.) having a largest

area (The smaller rectangle contains the largest area of the image of fig. 5a.) out of the

set of composite digital image regions (Fig 5a has regions of a top, bottom, left, and

right regions which are labeled as "CROPPED".) having aspect ratio L:H (In reference to

the bottom cropped margin; 640 for the length and 18 lines high.)

It would have been obvious at the time the invention was made to one of ordinary

skill in the art to modify Burt et al.'s teaching of selecting a size for dropping with

Armstrong et al.'s teaching of selecting a larger size for cropping because "The images

remain of good quality with a faster overall frame rate [for all modes 1-3 in col. 5, lines

6-9] (Armstrong et al., col. 5, lines 27-29)." Note that mode 1 corresponds to the image

of figure 5a.

Regarding claim 4, Armstrong et al. teaches a cropping criterion (Fig. 9,num.

81:# VERTICAL LINES=TOTAL VERTICAL LINES IN IMAGER) that specifies that a

cropped digital image (Figure 5a contains a smaller rectangle labeled: MODE 1 640 X

480 IMGAE) is the composite digital image region (The smaller rectangle labeled:

MODE 1 640 X 480 IMAGE.) having largest area (The smaller rectangle contains the

largest area of the image of fig. 5a.) out of the set of composite digital image regions

(Fig 5a has regions of a top, bottom, left, and right regions which are labeled as

"CROPPED".) having aspect ratio L:H (In reference to the bottom cropped margin; 640

for the length and 18 lines high.) that are centered at the centroid of a composite digital

image (The smaller rectangle labeled as MODE 1 is shown centered in figure 5a and

mentioned in col. 5, lines 4-6 with other regions surrounding the smaller rectangle.).

Regarding claim 5, Armstrong et al. teaches a method wherein a cropping

criterion specifies that the cropped digital image is the composite digital image region

having largest area out of the set of composite digital image regions having aspect

ratio L:H that are centered at the centroid (Addressed in claim 4) of the main subject

(The smaller rectangle, mode 1, of figure 5a can be non-centered in col. 5, lines 7-9 and

48,49.) of the composite digital image (The smaller rectangle labeled as MODE 1 is

shown centered in figure 5a and mentioned in col. 5, lines 4-6 with other regions

surrounding the smaller rectangle.).

11.   Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Burt et

al. (US Patent 5,649,032 A) in view of Seitz et al. (View Mophing, Proceedings of the

23rd annual conference on Computer graphics and interactive techniques, ACM Press,

1996, pp. 21-30).

Regarding claim 15, Burt et al. does not teach the limitation of claim 15, but does

suggests other forms of blending shown in figure 6,num. 614:OTHER.

However, Seitz et al. teaches a method, wherein a step of blending warped

digital images (fig. 4 has images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 are

warp images that corresponds to step 1 or prewarping on page 24, right column.) further

comprises the steps of:

i) projecting (A projective transform "H" is applied to the images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 in the above step 1.) the warped digital images (fig. 4 has images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 are warped images that corresponds to step 1 or prewarping on page 24, right column.) to simulate image capture on parallel image planes (Fig 4 shows the images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 in a parallel plane.), forming projected digital images (The images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 are pre-warped and projected digital images);

ii) morphing (Step 2:Morph on page 24, right column) the projected digital images (The images I_o with "^" on top of I_o and I_1 with a "^" on top of I_1 are pre-warped and projected digital images) in the overlapping regions (Morphing of step 2 uses "corresponding points" between both of the above images.) to form a projected composite digital image (Figure 4, image I_s with a "^" on top of the I_s is generated from the above two images.)

iii) choosing viewing parameters (Page 26, section 4.1:Controlling the Morph using "H_s" allows interaction of the morphing.) for a composite digital image (fig. 4, image I_s); and

iv)   re-projecting (Step 3:Postwarp on page 24, right column uses a projective

transform, "H".) the projected composite digital image (Figure 4, image I_s with a "^" on

top of the I_s is generated from the above two images.) to simulate image capture with

the chosen viewing parameters (Page 26, section 4.1:Controlling the Morph [step 2 on

page 24,right column] using "H_s" allows interaction of the morphing.), forming a

composite digital image (fig. 4, image I_s).

It would have been obvious at the time the invention was made to one of ordinary

skill in the art to modify Burt et al.'s teaching of another blending technique shown in

figure 6, num. 614:OTHER with Seitz et al.'s teaching of blending or "view morphing

enables transitions between images of different objects that give a strong sense of

metamorphosis in 3D (Seitz et al., page 27, section: CONCLUSIONS)."

12.   Claims 17,18, 22, 23 and 24 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Burt et al. (US Patent 5,649,032 A) in view of Yoshida et al. (US

Patent 6,266,128 B1).

Regarding claim 17, Burt et al. does not teach the limitation of claim 17, but does

suggest that a user can select a size and shape of an image as shown in figure 5,num.

506: SELECT REGION OF INTEREST SIZE AND SHAPE.

However, Yoshida et al., in the field of endeavor of printing images from a

camera, teaches claim 17 of a method, wherein an aspect ratio is a portrait aspect ratio

and landscape ratio in col. 7, lines 47-56.

Claim 18 was addressed in claim 17.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify Burt et al.'s suggestion of a user selectable size and shape with Yoshida's teaching in col. 7, lines 47-56, because Yoshida's teaching "has a good or fine appearance, without making a useless or wasteful space on the printing paper (Yoshida, col. 8, lines 3-7)."

Regarding claim 22, the combination of Yoshida teaches the method claimed in claim 1, wherein the aspect ratio is 2:3 and 9:16 and 1:3 in col. 7, lines 42-47. Claims 23 and 24 were addressed in claim 22.

13.   Claims 19, 20, 21 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burt et al. (US Patent 5,649,032 A) in view of Suzuki et al. (US Patent 6,094,218 A).

Regarding claim 19, Burt et al. does not teach the limitation of claim 17, but does suggest that a user can select a size and shape of an image as shown in figure 5,num. 506: SELECT REGION OF INTEREST SIZE AND SHAPE.

However, Suzuki et al., in the field of endeavor of displaying and trimming images, teaches the limitation of claim 19, wherein the aspect ratio is 3:2 and 16:9 and 3: 1 in col. 6, lines 36-39.

Claims 20 and 21 were addressed in claim 19.

Regarding claim 25, Suzuki et al. teaches a method, wherein an aspect ratio ("aspect ratio" in col. 9, line 48) is included as meta-data ("magnetic information" in col. 9, line 49) with at least one source digital image ("frame image obtained from the scanner (col. 9, line 51)...").

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify Burt et al.'s teaching of a user selectable size and shape with Suzuki et al.'s teaching of an aspect ratio as meta data, because "a user can easily and simply perform an operation to obtain the desired image... and... can save the results (Suzuki et al., col. 4, lines 46-50)."
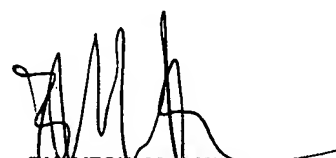
Conclusion

14.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Rosario whose telephone number is (571) 272-7397. The examiner can normally be reached on 6-3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571)272-7453. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

꒯꒴
Dennis Rosario
Unit 2621

BHAVESH M. MEHTA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600